ECS Configuration C	nange Request				Page 1 of	Pag	ge(s)
1. Originator	2. Log Date:	3. CCR #:		4. Rev	: 5. Tel:	6. Rm #:	7. Dept.
John E. Rubenacker	12/11/01	01-0921		_	301- 925-0828	2040A	SI&T
8. CCR Title: Update VDB fo	r new Drop 6X test case	es and criteria m	appings			·	
9. Originator Signature/Da	ate		10. C	lass	11. Type:	12. Need Date	e: 12/12/01
John Rubenacker /s/	12/4/01		ı	ı	CCR		
13. Office Manager Signatu	ire/Date		14. Ca	ategory	of Change:	15. Priority: (I fill in Block 27).	
	/4/01		100			Routine	
16. Documentation/Drawing Verification Database (VDB)	gs Impacted:	II.	1 7. Sche mpact: None	edule	18. CI(s) At	fected:None	
19. Release Affected by thi	s Change:	20. Date due t	to Custo	omer:	21. Estimated C		
6A					None - Under 100	OK .	
22. Source Reference: ECS PI SE-1-023 requires the					SFC Other: sociated criteria m	appings.	
 Four new test cases in Drop The new test cases are cu One criterion for Drop 6A ar criteria to the test cases identified 	urrently not in the VDB; to additional criteria for	this CCR adds t	hem to t	he VDB.		cases; this CCF	R maps these
24. Proposed Solution: (us - Add the test cases specified - Include the mappings specification (Note: Since there has been (Drop 6X)" table does not alw	I in the attached "Test C fied in the attached "Crit some transfer of functio ays coincide with the dr	case Additions (I eria to Test Cas enality among E0 op that applies t	e Mapp CS Drop	ing (Drops, the "T	p 6X)" table in the est Case Drop" fie	eld in the "Test C	Case Additions
25. Alternate Solution: (us N/A	e additional sheets if r	necessary)					
26. Consequences if Changer - New Drop 6X test cases wo - VDB would indicate orphan - Failure to make these changer	uld not be included in th criteria for Drop 6A, 6X,	e VDB. and 6B, i.e., cri	teria wit	hout any	test case mappin		
27. Justification for Emerg	ency (If Block 15 is "E	mergency"):					
28. Site(s) Affected: ☐E		□EDC □	GSFC	□LaRC	NSIDC □	SMC 🗆 AK 🗆	JPL
29. Board Comments:				30.	Work Assigned T	o: 31. CCR (Closed Date:
32. EDF/SCDV CCB Chair (Sign/Date): [Disposition: A	pproved	App/C	com. Disapproved	d Withdraw Fv	vd/ESDIS
Byron V. Peters /s/ 12/	12/01 EI	RB					
33. M&O CCB Chair (Sign/I	Date):	Disposition : Ap	proved wd/ECS	App/Co	om. Disapproved	Withdraw Fw	d/ESDIS ERB
34. ECS CCB Chair (Sign/D	ate):	isposition: Ap		App/Co	m. Disapproved	Withdraw Fw	/d/ESDIS FRB
		-	/d/ESDI		2.00pp10100	THE PERSON OF THE	

CM01JA00 Revised 10/15/01 ECS/EDF/SCDV/M&O

Test Case Id	Test Case Title	Test Case Type	Test Case Drop
6X08010	Firewall	AT	6X
6P09060	Ingest of Aura and SORCE Instrument Data Types	AT	6X
6P09070	Ingest of DAS Data Types	AT	6X
6P10040	Results Set Chunking	AT	6X

Criteria Key	Ticket Id	Criteria Id	Criteria Statement	Criteria Type	Test Case Id	Test Case Title	Test Key
1749	EN_6A_01	51	Demonstrate that the Ingest tape processing can detect and respond to the following errors with a short PMPAN message: Incorrect number of metadata files.	EC	6A09000	IGS Tape Ingest	1943
1979	RM_6X_01	10	Using an LPS simulator outside the firewall, ingest an L7 subinterval. Verify that the granule is correctly inserted and that the tcp/ip message traffic for exchanging requests and acknowledgments takes place. Repeat this test from a different host outside the firewall, simulating a non-LPS host, and verify that it is not possible to kick of an Ingest. This test exercises tcp/ip socket connections (in and out) and ftp connections (out) through the firewall.	FC	6X08010	Firewall	
1980	RM_6X_01	20	Submit an order for several L7 scenes for ftp push and ftp pull from the V0 EDG Client (or a test driver simulating V0 protocols) running outside the firewall. Operate a simulated DORRAN interface outside the firewall. Verify the following: 1. The scenes can be ordered without problems. 2. The simulated DORRAN interface receives the L7 orders and can loop back the orders for processing by ECS. 3. The scenes ordered via ftp push are delivered correctly. 4. The scenes ordered via ftp pull are staged on the ECS pull area. 5. The distribution notices are received on e-mail accounts outside the firewall. 6. The scenes that were staged on the ftp pull area can be pulled from several locations outside the firewall. This test exercises tcp/ip socket connections (in and out), ftp connections (in and out), and e-mail (out) through the firewall.	FC	6X08010	Firewall	

1981	RM_6X_01	30	Operate the JDT and GDS simulator outside the firewall, Use the JDT to submit a DAR and then query for DAR. Submit a standing production order for a higher level ASTER product for one of the found DAR. Verify the following: 1. The DAR can be submitted and is correctly received and acknowledged by the GDS simulator. 2. The DAR query can be submitted, is correctly received by the GDS simulator and the result is correctly displayed. 3. The standing order can be submitted and is correctly queued up by ECS. This test exercises http (in) and tcp/ip socket connections (in and out) through the firewall.	FC	6X08010	Firewall	
1982	RM_6X_01	40	Using a simulated EDOS outside the firewall, push a level-0 granule, PDR and signal file into the EDOS ingest directory. Verify that the granule is inserted into ECS correctly and that the acceptance notice is sent. Repeat the test trying to push form a different host. Verify that it is not possible to ftp to the EDOS ingest directory from that host. This test exercises ftp connections (in and out) through the firewall.	FC	6X08010	Firewall	
1983	RM_6X_01	50	Configure an ftp server outside the firewall for polling ingest for some ancillary data (this simulates, for example, the GSFC NOAA Data Link server). Deposit several granules in the polling directory and verify that they are inserted into ECS correctly. This test exercises ftp connections (out) through the firewall.	FC	6X08010	Firewall	
1984	RM_6X_01	60	Configure an ftp server/directory inside a second firewall for polling ingest from an INS inside the first firewall. Deposit several granules and their PDR in the polling directory. Verify that the granules are correctly ingested and inserted into ECS and that the acceptance notifications are sent. This test exercises ftp connections (in and out) through the firewalls, as would be used in cross-DAAC traffic.	FC	6X08010	Firewall	

1985	RM_6X_01	70	Configure an ftp server connected to the firewall via HiPPI for polling ingest. Deposit several granules and their PDR in the polling directory. Verify that the granules are correctly ingested and inserted into ECS and the acceptance notifications are sent. This test exercises ftp connections (out) and e-mail (out) through the firewall to a HiPPI connected server.	FC	6X08010	Firewall
1986	RM_6X_01	80	Using the MTMGW, submit orders from outside the firewall. The orders must be for several granules for ftp push to a server connected to the firewall via HiPPI. Verify that the granules are pushed correctly and that the e-mail notifications are correctly received on e-mail accounts outside the firewall. Verify that attempts to submit MTMGW orders from another host are rejected. This test exercises ssh connections (in), ftp connections (out via HiPPI), and e-mail (out) through the firewall.	FC	6X08010	Firewall
1987	RM_6X_01	100	From a mail account outside the firewall, submit an EDR via e-mail. Verify that the order is correctly received and handled by ECS. This test exercises e-mail (in).	FC	6X08010	Firewall
1988	RM_6X_01	110	Using the V0 EDG (or a test driver simulating it) outside the firewall, submit a user registration. Verify that the user profile is correctly inserted at the user profile database configured as the 'SMC' and replicated to another user profile database operating behind a second firewall simulating a remote DAAC. This test exercises tcp/ip connections (in) and Sybase replication through the firewall.	FC	6X08010	Firewall
1989	RM_6X_01	120	Connect a platform inside the firewall to an external time provider outside the firewall. Verify that the external time service is used by the platform. This test exercises the ntp protocol through the firewall.	FC	6X08010	Firewall
1990	RM_6X_01	130	From an account outside the firewall, send e-mail messages to an (M&O) account inside the firewall (e.g., subscription requests). Verify that the e-mail is received correctly. This test exercises e-mail (in) through the firewall.	FC	6X08010	Firewall

1991	RM_6X_01	140	From inside the firewall, access a web server located outside the firewall (e.g., at another DAAC). Verify that the web access is possible. Repeat the test from a platform not authorized for external web access. Verify that the access is not possible. This test exercises http (out) through the firewall. From inside the firewall, use the ECS scripts for accessing the Naval Observatory to obtain a new lea second file.	FC	6X08010		
1993	RM_6X_01	150	This test exercises anonymous ftp (out) through the firewall. Configure ftp and secure shell capabilities on a host inside the DAAC that is not supposed to be accessible from outside the firewall. Verify that attempts from outside the firewall to	EC	6X08010	Firewall	
1975	RH_6B_03	10	connect to this host via ftp, or secure shell or ping fail Verify that the system can ingest and archive the following MLS data types: ML1ENG, ML1LOG, ML1OA, ML1RADD,	FC	6P09060	Ingest of Aura and SORCE	
			ML1RADF, ML2BRO, ML2CLO, ML2CO, ML2DGG, ML2DGM, ML2Z, ML2SH2O, ML2HCL, ML2HCN, ML2HNO3, ML2HO2, ML2HOCL, ML2ICE, ML2LOG, ML2N2O, ML2O3, ML2OH, ML2OTH, ML2RHI, ML2SO2, ML2T, ML3DCLO, ML3DCO, ML3DZ, ML3DH2O, ML3DHCL, ML3DHCN, ML3DHNO3, ML3DICE, ML3DN2O, ML3DO3, ML3DOH, ML3DRHI, ML3DT, ML3DZMD, ML3DZMS, ML3LOG, ML3MMAP, ML3MZMD, ML3MZMS			Instrument Data Types	
1976	RH_6B_03	20	Verify that the system can ingest and archive the following TES data types: TL1BL, TL1BN, TL2ATMTL, TL2ATMTN, TL2CH4L, TL2CH4N, TL2COL, TL2CON, TL2H2OL, TL2H2ON, TL2HNO3L, TL2NO2L, TL2NOL, TL2O3L, TL2O3N, TL3ATMTL, TL3ATMTN, TL3CH4L, TL3CH4N, TL3COL, TL3CON, TL3H2OL, TL3H2ON, TL3HNO3L, TL3NO2L, TL3NOL, TL3O3L, TL3O3N	FC	6P09060	Ingest of Aura and SORCE Instrument Data Types	
1977	RH_6B_03	30	Verify that the system can ingest and archive the following HIRDLS data types: HIR1DRV, HIR2APR, HIR2BRWS, HIR2CFG, HIR2CLDS, HIR2CLIM, HIR2CTRL, HIR2INST, HIR2LOG, HIR2QA, HIR2TRA, HIR3CFG, HIRDLS1, HIRDLS2, HIRDLS3	FC	6P09060	Ingest of Aura and SORCE Instrument Data Types	

1978	RH_6B_03	40	Verify that the system can ingest and archive the following SORCE spacecraft data types: SORLOTLM, SOR3TSID, SOR3TSI6, SOR3SSID, SOR3SSI6, SOR41NMD, SOR41NM6	FC	6P09060	Ingest of Aura and SORCE Instrument Data Types	
1936	RH_6B_02	40	Verify that the system can ingest and archive the following DAS data types: DREAPCHM, DREAPCLD, DREAPMIS, DREAPMOM, DREAPMST, DREAPTMP, DREAPTRP, DREAXCHM, DREAXCLD, DREAXENG, DREAXLSM, DREAXMIS, DREAXSTR.	FC	6P09070	Ingest of DAS Data Types	
1887	EN_6B_03	10	Using the V0 EDG client or a test driver simulating V0 protocols, perform an inventory search specifying that all metadata attributes are to be returned in the search results. Set up the test case such that the inventory search results contain more granules than the SDSRV default chunk size. Also, let V0 GTWAY pass to the SDSRV a chunk size smaller than the SDSRV default chunk size. Verify correct search results are returned to the V0 EDG client or the test driver. Verify the search results are returned in multiple chunks from the SDSRV to the V0 GTWAY using the chunk size specified by the V0 GTWAY. Repeat the above inventory search test with the V0 GTWAY passing a chunk size larger than the SDSRV default chunk size. Verify the search results are returned using the SDSRV default chunk size.	FC	6P10040	Results Set Chunking	
1888	EN_6B_03	20	Using the V0 EDG client or a test driver simulating V0 protocols, perform an inventory search. Set up the test case such that the inventory search results contain a fairly small amount of data, that fits within a single data chunk. Verify correct search results are returned to the V0 EDG client or the test driver. Verify the search results are returned in a single chunk from the SDSRV to the V0 GTWAY.	FC	6P10040	Results Set Chunking	
1890	EN_6B_03	40	Using a test driver simulating SIPS, perform an inventory search through the MTMGW. Verify the correct search results are returned. Verify the search results are returned from the SDSRV to the MTMGW in one or more data chunks using the default chunk size configured in the SDSRV.	FC	6P10040	Results Set Chunking	

1891	EN_6B_03	50	Perform multiple concurrent inventory searches	FC	6P10040	Results Set	
1091	EIN_0D_03	50	from the following clients:	FC	6F 10040	Chunking	
			one or more V0 EDG client sessions or test drivers simulating V0 protocols				
			2. a test driver simulating the SIPS client.				
			Verify the search results are returned to each V0 EDG client or test driver using proper data chunking.				
			Verify the search results are returned from the SDSRV to the MTMGW using the default chunk size configured in the SDSRV.				
1892	EN_6B_03	60	Using the V0 EDG client or a test driver simulating V0 protocols, perform an inventory search specifying that only a subset of the metadata attributes are to be returned in the search results. Design the test such that the search results contain more granules than the SDSRV default chunk size. Also, let V0 GTWAY pass to the SDSRV a chunk size smaller than the SDSRV default chunk size.	FC	6P10040	Results Set Chunking	
			Verify correct search results are returned to the V0 EDG client or the test driver.				
			Verify the search results are returned in multiple chunks from the SDSRV to the V0 GTWAY using the chunk size specified by the V0 GTWAY.				
			Repeat the above inventory search test with the V0 GTWAY passing a chunk size larger than the SDSRV default chunk size. Verify the search results are returned using the SDSRV default chunk size.				
1893	EN_6B_03	70	Using the V0 EDG client or a test driver simulating V0 protocols, perform an inventory search. Design the test such that the SDSRV fails during the inventory results set chunking. Set up the test case such that the inventory search results contain more granules than the SDSRV default chunk size.	EC	6P10040	Results Set Chunking	
			Shutdown the V0 GTWAY connection to the SDSRV after the first chunk is returned from the SDSRV.				
			Verify that the V0 GTWAY returns an error message to the V0 EDG client (or test driver) using V0 protocols.				